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CLAIMS

1. A process for the preparation of a compound of formula

 $HO-A-ONO_2$ (I),

wherein A is a C₂-C₆ alkylene chain, comprising the nitration of a compound of formula

HO-A-OH (II),

wherein A is as defined above, with "stabilised" nitric acid.

- 2. A process as claimed in claim 1, wherein the compound of formula (I) is ethanediol-mononitrate; 1,3-propanediol-mononitrate; 1,4-butanediol-mononitrate; 1,5-pentanediol-mononitrate or 1,6-hexanediol-mononitrate.
- 3. A process according to any one of claims 1 or 2, wherein the "stabilised" nitric acid has a concentration ranging from 83 to 85% and is substantially free from nitrous acid and nitrogen oxides.
- 4. A process according to any one of claims 1-3, wherein the reaction is carried out in a water-immiscible chlorinated organic solvent.
- 5. A process as claimed in claim 4, wherein the chlorinated organic solvent is a mono-, di-, tri- or tetra-chloro C_1 - C_4 -alkyl hydrocarbon.
- 6. A process according to any one of claims 1-5, wherein the weight ratio of "stabilised" nitric acid to the compound of formula (II) ranges from 10:1 to 15:1.
- 7. A process according to any one of claims 1-5, wherein the nitration is carried out for a time ranging from 10 to 30 minutes.
- 8. A process according to any one of claims 1-7, wherein the compound of formula (II) is 1,4-butanediol and the weight ratio of "stabilised" nitric acid to butanediol ranges from 11: 1 to 14.5: 1.
- 9. Nitration mixture in a water-immiscible organic chlorinated solvent

comprising a compound of formula (I), as obtainable by the process of claim 1.

- 10. "Stabilised" nitric acid characterized in that it has a concentration ranging from 83 to 85% and is substantially free from nitrous acid and nitrogen oxides.
- 11. Process for the preparation of "stabilised" nitric acid comprising the dilution of fuming nitric acid with water to a concentration of about 83 85% and treatment with urea or sulfamic acid, in amount ranging from 0.3 to 1% w/w, for a time ranging from 80 to 130 minutes.